

AMENDMENTS TO THE CLAIMS

What is claimed is:

1.-6. (Canceled)

7. (Previously Presented) An input device for an image forming device comprising:

a motor;

a pick mechanism operatively connected to the motor, the pick mechanism positioned to move a media sheet from an input tray;

a first gear set having a first ratio and operatively connecting the motor to the pick mechanism;

a feed nip operatively connected to the motor to receive the media sheet and forward the media sheet along a media path, the feed nip positioned downstream from pick mechanism a distance less than a length of the media sheet;

a second gear set having a second gear ratio and operatively connecting the motor to the feed nip;

the motor operating at a constant speed and driving the pick mechanism at a first speed and the feed nip at a second speed that is different from the first speed;

wherein the second gear set includes a swing arm having a first gear on a first arm, and a second gear on a second arm, the swing arm is positionable between a first orientation with the first gear in contact with the feed nip and a the second gear distanced from the feed nip, and a second orientation with the first gear distanced from the feed nip and the second gear in contact with the feed nip;

a metering nip positioned downstream from the feed nip and operating at a third speed greater than the second speed, the feed nip having a clutch to rotate at the third speed when the media sheet is in contact with both the metering nip and the feed nip.

8. (Previously Amended) The device of claim 7, further comprising a clutch positioned within the pick mechanism that allows the pick roll to rotate at the second speed which is greater than the first speed when the media sheet is in contact with the both the feed nip and the pick roll and the motor is operating at a first level.

9.-30. (Canceled)

31. (Previously Amended) A method of moving a media sheet within an image forming apparatus comprising the steps of:

driving a motor at a first rate in a first direction to rotate a first roller in a forward direction and contacting the media sheet with the first roller to move the media sheet at a first speed along a first section of a media path;

driving the motor at the first rate in the first direction to rotate a second roller in the forward direction and contacting the media sheet with the second roller to move the media sheet at a second speed along a second section of the media path;
and

revising the motor to a second direction and continue rotating the second roller in the forward direction and contacting the media sheet with the second roller to move the media sheet along the second section of the media path; and driving the motor in the second direction with the first roller contacting the media sheet and rotating freely as the media sheet is driven by the second roller.

32.-38. (Canceled)

39. (New) The method of claim 31, further comprising moving the media sheet at a faster speed along the second section of the media path than along the first section of the media path.

40. (New) The method of claim 31, further comprising rotating the motor at the first rate and moving the media sheet at the same speed along the first section of the media path and at least a portion of the second section of the media path.

41. (New) A device for moving a media sheet along a media path of an image forming apparatus comprising:

- a motor;

- a first roll having a first clutch;

- a second roll positioned downstream from the first roll along the media path a distance less than a length of the media sheet;

- a first gear set operatively connecting the motor to the first roll to drive the first roll at a first speed when the motor operates in a first direction; and

- a second gear set having a first gear path and a second gear path, the second gear set in a first orientation using the first gear path to operatively connect the motor to the second roll and drive the second roll at a second speed when the motor operates in a first direction;

- the second gear set being positionable in a second orientation using the second gear path to drive the second roll in a same direction when the motor is driven in a second direction;

- the clutch allows the second roll to control the media sheet when the media sheet is in contact with both the first roll and the second roll.

42. (New) The device of claim 41, wherein the first gear set and the second gear set are constructed for the first speed and the second speed to be substantially the same when the motor is driven at a constant rate.

43. (New) The device of claim 41, wherein the first gear set and the second gear set are constructed for the second speed to be faster than the first speed when the motor is driven at a constant rate.

44. (New) The device of claim 43, wherein the first roll and the second roll rotate at the second speed when the media sheet is in contact with both the first roll and the second roll.

45. (New) The device of claim 41, wherein the clutch prevents the first gear set from driving the first roll when the motor is driven in the second direction.

46. (New) The device of claim 41, wherein the first roll is a pick roll positioned within an input tray.

47. (New) An input device for an image forming device comprising:

- an input tray;

- a pick mechanism having a pick arm extending into the input tray and a pick roll positioned at a distal end to contact a media sheet within the input tray;

- a feed nip positioned downstream from the pick mechanism a distance less than a length of the media sheet, the feed nip having a drive roll and a driven roll;

- a motor;

- a first gear set extending between the motor and the pick mechanism to drive the pick roll at a first speed;

- a second gear set extending between the motor and the drive roll to drive the drive roll at a second substantially equal to the first speed;

- the second gear set comprising a swing arm pivotally positioned between a first orientation with a first gear contacting the drive roll, and a second orientation with a second gear contacting the drive roll.

48. (New) An input device for an image forming device comprising:

- an input tray;
- a pick mechanism having a pick arm extending into the input tray and a pick roll positioned at a distal end to contact a media sheet within the input tray;
- a feed nip positioned downstream from the pick mechanism a distance less than a length of the media sheet, the feed nip having a drive roll and a driven roll;
- a motor;
- a first gear set extending between the motor and the pick mechanism to drive the pick roll at a first speed;
- a second gear set extending between the motor and the drive roll to drive the drive roll at a second speed greater than the first speed;
- the second gear set comprising a swing arm pivotally positioned between a first orientation with a first gear contacting the drive roll, and a second orientation with a second gear contacting the drive roll.

49. (New) The device of claim 48, further comprising a metering nip positioned downstream from the feed nip that operates at a third speed greater than the second speed, the feed nip having a clutch for the drive roll to rotate at the third speed when the media sheet is in contact with both the metering nip and the feed nip.

50. (New) The device of claim 48, further comprising a clutch positioned within the pick mechanism that allows the pick roll to rotate at the second speed when the media sheet is in contact with both the feed nip and the pick roll and the motor is operating at a first speed.

51. (New) The device of claim 49, further comprising a clutch positioned within the feed nip that allows the feed nip to rotate at the third speed when the media sheet is in contact with both the feed nip and the metering nip.